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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,116	12/23/2005	Takayuki Miyashita	009760-028	1223
	7590 09/08/200 INGERSOLL & ROOI	EXAMINER		
POST OFFICE	BOX 1404	THOMAS, JAISON P		
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			09/08/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	10/562,116	MIYASHITA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jaison P. Thomas	1796			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 5/20/2 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 8 is/are withdrawn fro 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 and 9-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ access	r election requirement.	Examiner.			
Applicant may not request that any objection to the orection Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Expression 11.	on is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/15/2007.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I, Claims 1-7 and 9-20 in the reply filed on 6/30/2008 is acknowledged. The traversal is on the ground(s) that there is no undue burden. This is not found persuasive because of the reasons stated in the previous Office Action i.e. the special technical feature of the claims do not contribute a patentable distinction over the prior art in light of MPEP 2113 and therefore lack unity of invention.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-7 and 10-18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Seiichi et al. (JP 07-018162).

Seiichi et al. teaches a liquid crystalline composition which contains 100 pts by weight of liquid crystalline polyester amide and 1 to 300 pts by weight of graphite containing more than 98% fixed carbon content and a average particle size of 20 to 2000 microns (Abstract) wherein the composition is manufactured through a melt kneading process (pg. 11, para. 0049).

With respect to the limitations dealing with melt viscosities, volume resistivity and heat conductivity, the Examiner respectfully submits that the prior art would inherently meet these limitations. Specifically, the prior art contains similar components used in similar amounts and would inherently possess the properties recited in the claimed limitations.

With respect to the limitations of throughput and screw revolution rate, the Examiner cites MPEP 2113 which states, "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (citations omitted). "The Patent Office bears a lesser burden of proof in making out a case of *prima facie* obviousness for product-by-process claims because of their peculiar nature" than when a product is claimed in the conventional fashion. *In re*

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Fessmann, 489 F.2d 742, 744, 180 USPQ 324, 326 (CCPA 1974). Once the examiner provides a rationale tending to show that the claimed product appears to be the same or similar to that of the prior art, although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product. *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983)

5. Claims 1-7 and 9-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seiichi et al. (JP 07-018162) in view of Bisaria et al. (US Patent 6379795).

Seiichi is relied upon as discussed above. However Seiichi does not teach the screw rpm, throughput rates and ratios of said values as required by instant Claim 1.

Bisaria et al. teaches the manufacture of graphite plaques for use in fuel cells wherein the composition is made of a liquid crystal polymer and graphite filler. Bisaria teaches various ranges of process conditions for both screw rates and throughput (Col. 11, lines 45-46).

With respect to Claim 1, it would have been obvious to one of ordinary skill in the art at the time the invention was made to optimize the rpm, throughput and ratios of said values in the melt kneading process of Seiichi through routine experimentation for best results as Bisaria establishes that screw rpm and throughput values are known result effective variables in the art. As to optimization results, a patent will not be granted based upon the optimization of result effective variables when the optimization is obtained through routine experimentation unless there is a showing of unexpected

results which properly rebuts the prima facie case of obviousness. See In re Boesch, 617 F.2d 272,276,205 USPQ 215,219 (CCPA 1980). See also In re Woodrufl 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), and In re Aller, 220 F2d 454,456,105 USPQ 233,235 (CCPA 1955).

With respect to Claims 9,19 and 20, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the composition of Seiichi to manufacture fuel cell separator plates since Seiichi teaches the use of the composition for use in various molded articles and there is significant similarity of compositions used to make fuel cell separator plates (see Bisaria et al.) and the composition of Seiichi i.e. the compositions contain liquid crystal polyesters and graphite fillers.

Conclusion

- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaison P. Thomas whose telephone number is (571) 272-8917. The examiner can normally be reached on Mon-Fri 9:30 am to 6:00 pm.
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. P. T./ Examiner, Art Unit 1796 /Mark Kopec/ Primary Examiner, Art Unit 1796